SonoSite

SiteStand® Mobile Docking Station
Service Manual

Manufactured for
SonoSite, Inc.
21919 30th Drive SE
Bothell, WA 98021-3904
USA
Telephone: 1-888-482-9449 or +1-425-951-1200
Fax: +1-425-951-1201

SonoSite European Headquarters
Baystrait House, Station Road
Biggleswade SG18 8AL
UK
Telephone: +44-1767-313-117
Fax: +44-1767-312-400

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- United States federal law restricts this device to sale by or on the order of a physician.

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Table of Contents

1 Introduction 1

1.1 SiteStand mobile docking station....1
1.2 SiteStand System Display....1
1.3 Setup and Operation....2
1.4 Specifications....3
1.4.1 SiteStand mobile docking station....3
1.4.2 SiteStand mobile docking station Display....3
1.4.2.1 Display Type....3

2 Safety 5

2.1 Electrical Safety....5
2.2 Equipment Protection....6
2.3 Electrical Safety Testing....6
2.4 Biological Safety....7

3 Servicing the SiteStand 9

3.1 Introduction....9
3.1.1 Contacting SonoSite Technical Support....9
3.2 Troubleshooting the SiteStand mobile docking station....9
3.3 Disassembling the SiteStand mobile docking station....11
3.3.1 Required Materials and Equipment....11
3.3.2 Replacing the Sleeve Assembly and the Docking PCBA 11
3.3.3 Replacing the Foot Pedal....11
3.3.4 Repairing or Replacing the Front Panel Connectors and the Power Supply12
3.3.5 Replacing the SiteStand station Fuse....13
3.4 SiteStand Mobile Docking Station Performance Tests....14
3.4.1 Setup....14
3.4.2 AC Power Verification....14
3.4.3 Docking Video....14
3.4.4 RS-232....14
3.4.5 Printer Interface....14
3.4.6 Audio Tone....14

A Schematic and Parts List 15

A.1 Schematic and Wiring Diagram....15
A.2 Replacement Parts List 15
A.3 Ordering Replacement Parts 15
A.4 Cabling Diagram....16
A.5 Schematic Diagram, Docking Stand PCB 20
A.6 SiteStand Station Assembly....21
A.7 SiteStand Station Sleeve Assembly 24

B Service Event Report 25

CHAPTER 1

Introduction

Before servicing the SiteStand® mobile docking station (SiteStand), read and be familiar with the information in this manual.

1.1 SiteStand mobile docking station

The SiteStand station (Figure 1.1) does the following:

The SiteStand® mobile docking station (SiteStand) does the following:

- Provides a mobile, ergonomic work surface with height and angle adjustment
- Holds the SonoSite system, two transducers, a printer, and certain accessories
- Charges the system battery and consolidates the following peripheral connections: two video out, an audio out, an RS-232C, a printer control, and two AC mains IEC power
- Offers a connection to the PC to download images
- Provides a locking feature to secure system against theft

1.2 SiteStand System Display

The SiteStand may include an optional flat panel display with the following features:

- A high resolution display
- An additional video display for patients, students, consulting professionals or others who require shared images
- Compatibility with all SiteStands
- Convenient display positioning with an articulating arm
- Worldwide power and video

1.3 Setup and Operation

For setup and operation of the SiteStand mobile docking station, refer to the *SiteStand Mobile Docking Station User Guide (P01542-06)*.

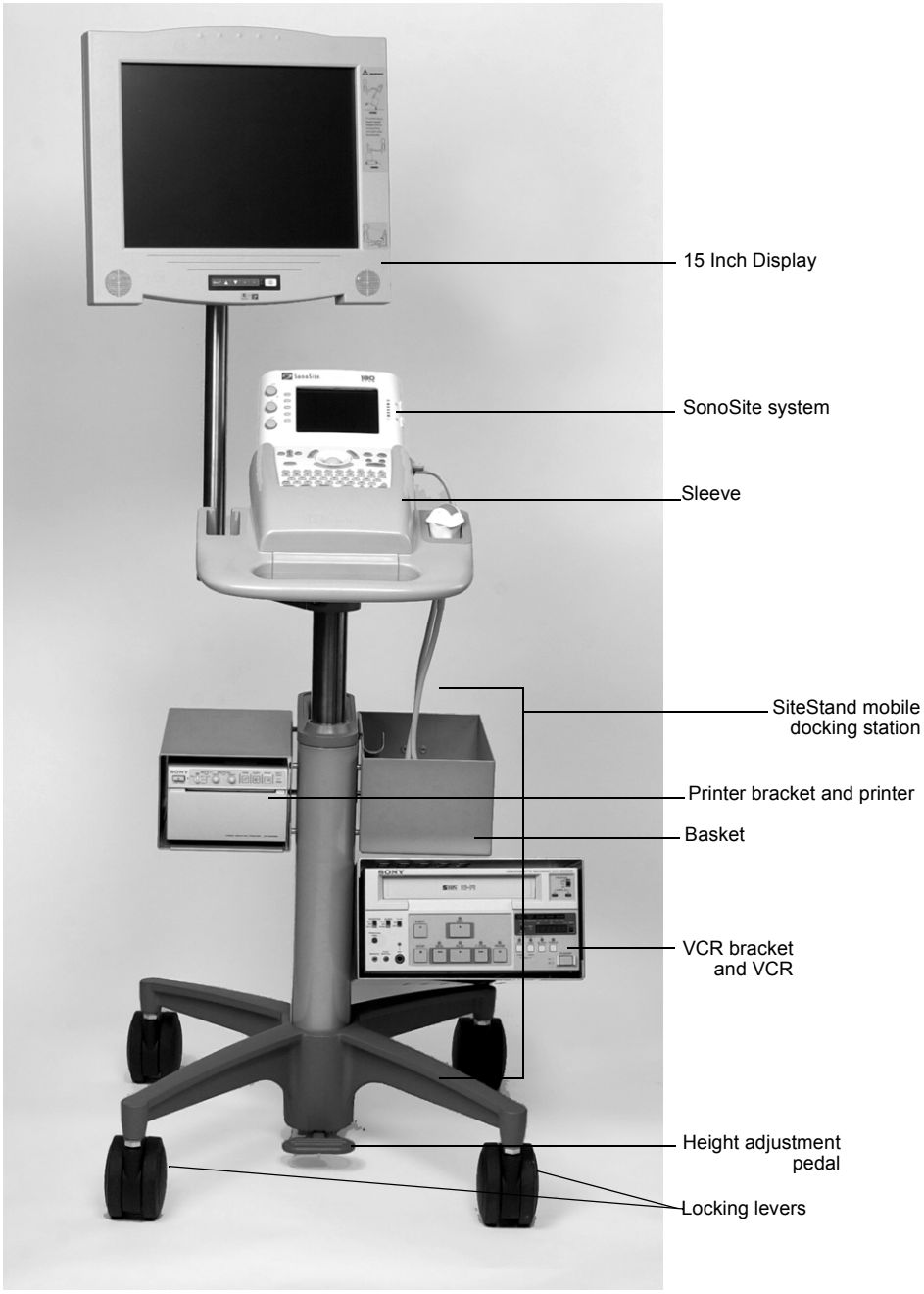


Figure 1.1 SiteStand mobile docking station

1.4 Specifications

1.4.1 SiteStand mobile docking station

The SiteStand mobile docking station operates on either 50 or 60-Hertz alternating current (AC) power (Table 1.1).

Table 1.1 SiteStand station AC Electrical Power Specifications

DEVICE	INPUT VOLTAGE	NOMINAL CURRENTS (AMPS)	OUTPUT VOLTAGE	NOMINAL CURRENTS (AMPS)
SiteStand	AC 100 -240 50/60 Hz	1.0 - 0.50	+ 16 Vdc AC 100 -240 50/60 Hz	2.8 2.0 (2x)
AC power adapter	AC 100 -240 50/60 Hz	1.0 - 0.50	+ 16 Vdc	2.8

1.4.2 SiteStand mobile docking station Display

The SiteStand station display operates on either 50 or 60-Hertz alternating current (AC) power (Table 1.2).

1.4.2.1 Display Type

TFT LCD 640 x 480 pixels

Table 1.2 SiteStand station Display AC Electrical Power Specifications

DEVICE	INPUT VOLTAGE	NOMINAL CURRENTS (AMPS)	OUTPUT VOLTAGE	NOMINAL CURRENTS (AMPS)
SiteStand display	+ 12 Vdc	2.75	N/A	
AC power adapter	AC 100 -240 50/60 Hz	0.85 max	+ 12 Vdc	2.75

CHAPTER 2

Safety

Please read this information before using this ultrasound system. It applies to the ultrasound system, transducers, peripherals, and accessories.

A **WARNING** describes precautions necessary to prevent injury or loss of life.

A **CAUTION** describes precautions necessary to protect the products.

2.1 Electrical Safety

WARNINGS:

- To avoid the risk of electrical shock, use commercial grade peripherals recommended by SonoSite on battery power only. Do not connect these products to the AC mains IEC power connectors on the SiteStand mobile docking station when using the system to scan or diagnose a patient/subject. Contact SonoSite or your local representative for a listing of the commercial grade peripherals available from or recommended by SonoSite.
- To avoid the risk of electrical shock, use only properly grounded equipment. Shock hazards exist if the AC power adapter is not properly grounded. Grounding reliability can only be achieved when equipment is connected to a connector marked “Hospital Only” or “Hospital Grade” or the equivalent. The grounding wire must not be removed or defeated.
- To avoid the risk of electrical shock and fire hazard, inspect the AC power adapter cord and plug on a regular basis. Ensure they are not damaged.
- To avoid the risk of electrical shock, use only accessories and peripherals recommended by SonoSite. Connection of accessories and peripherals not recommended by SonoSite could result in electrical shock. Contact SonoSite or your local representative for a list of accessories and peripherals available from or recommended by SonoSite.

CAUTIONS:

- Electrostatic discharge (ESD), or static shock, is a naturally occurring phenomenon. ESD is common in conditions of low humidity, which can be caused by heating or air conditioning. Static shock is a discharge of the electrical energy from a charged body to a lesser or non-charged body. The degree of discharge can be significant enough to cause damage to a transducer or an ultrasound system. The following precautions can help reduce ESD: anti-static spray on carpets, anti-static spray on linoleum, and anti-static mats.
- Excessive bending or twisting of cables can cause a failure or intermittent operation.

2.2 Equipment Protection

To protect your ultrasound system, transducer, and accessories, follow these precautions.

CAUTIONS:

- Excessive bending or twisting of cables can cause a failure or intermittent operation.
- Improper cleaning or disinfecting of any part of the system can cause permanent damage.
- Do not handle PCBs without proper static protection. Damage to components may result from improper handling.
- Do not use any of the ultrasound system connectors to operate accessories or peripherals, when the ultrasound system is in the SiteStand mobile docking station.This may cause damage to the equipment. This does not apply to the ECG cable. The ECG cable must always use the dedicated I/O connector on the ultrasound system.

2.3 Electrical Safety Testing

**Note*: *300uA is the limit only for 120V stands.*

Table 2.1 Acceptable Earth Leakage Current Values

AC VOLTAGE	LEAKAGE CURRENT (UA)	
	NC	SFC
100 - 240	0 < I < 300 / 500 (*)	0 < I < 1000

2.4 Biological Safety

Observe the following precautions related to biological safety.

WARNING:

- To avoid injury to user, patient, or bystander, lower the stand height prior to transporting and pull the stand over thresholds. Failure to lower the stand before pulling over thresholds when the 15 inch display is attached could result in the stand becoming unstable, tipping, or falling over.

Symbol

The following symbol is found on the 15 inch display.

Symbol	Definition
	Stand may tip during transportation when pushed over a threshold. Lower stand height and pull over thresholds when transporting.

For labeling symbols used with the SiteStand, please refer to the *SonoSite Ultrasound System User Guide*.

CHAPTER 3

Servicing the SiteStand

3.1 Introduction

Before servicing the SiteStand mobile docking station, read and be familiar with the information in this manual. The SiteStand assembly drawings and part lists are located in **Appendix A,** *Schematic and Parts List* on page 15.

3.1.1 Contacting SonoSite Technical Support

For technical support or to order spare parts, do one of the following:

- For U.S.& Canadian customers, call 1-877-657-8118.
- For all Worldwide customers, call +425-951-1330.
- Connect to SonoSite on the World Wide Web at www.sonosite.com. Select **Products**, then choose **Technical Support**.
- E-mail service@sonosite.com
- Facsimile to Technical Support, +425-951-6700

3.2 Troubleshooting the SiteStand mobile docking station

The intent of this section is to help isolate potential problems associated with the SiteStand station. Table 3.1 provides an observation of the problem, the possible cause, and the corrective action for the SiteStand station.

Table 3.1 SiteStand Station Troubleshooting

OBSERVATION	POSSIBLE CAUSE	CORRECTIVE ACTION
The system battery doesn't charge in the SiteStand station.	If the charge function of the system is acceptable, the possible causes are: • the power supply has failed or become disconnected • the dock PCBA located in the sleeve assembly has failed • the docking connectors on the sleeve assembly are broken or bent.	Verify the SiteStand station is at fault by attempting to charge the battery with the power supply connected directly to the system. If it does not charge, refer to the *SonoSite Ultrasound System Service Manual* for troubleshooting.
There is no video from the SiteStand station video out connection.	The SiteStand station docking PCBA has failed. The docking connections or the sleeve assembly have been broken.	See *Replacing the Sleeve Assembly and the Docking PCBA* on page 11.
There is no AC power from the SiteStand station power connection.	The SiteStand station fuse has failed.	See *Replacing the SiteStand station Fuse* on page 13.
There is no remote printer control to the printer on the SiteStand station.	The printer remote control cable has failed or is not attached correctly.	Replace the printer remote cable (P00762).
There is no output from the RS-232 communication connector.	The SiteStand station docking PCBA has failed. The docking connections on the sleeve assembly are broken or bent.	See *Replacing the Sleeve Assembly and the Docking PCBA* on page 11.
The sleeve assembly does not raise or lower.	The foot pedal is damaged. The gas spring is loose or damaged. The foot pedal has fallen off.	See *Replacing the Foot Pedal* on page 11.
The SiteStand station does not roll easily or in a straight line.	A castor is broken or bent. The SiteStand station base is damaged.	Replace the failed part.

3.3 Disassembling the SiteStand mobile docking station

Disassembly of the SiteStand station is dependent on the repairs required. The following order of disassembly is recommended in order to prevent damage to the SiteStand station and facilitate efficient repairs. The service provider uses professional judgement in altering this order to provide repairs to various parts of the SiteStand station.

3.3.1 Required Materials and Equipment

- #1 Phillips screwdriver
- Allen wrench (5/32 inch and 1/8 inch)
- Slotted screwdriver
- Socket (11/16 inch or 17 mm)

3.3.2 Replacing the Sleeve Assembly and the Docking PCBA

1. Tilt the sleeve assembly to its most upright position.
2. Use a #1 Philips screwdriver to remove the six screws from the metal base of the sleeve assembly.
3. Turn the sleeve assembly over and remove the two philips screws holding the cable connector to the sleeve assembly.
4. Unplug the connector and set the sleeve assembly aside.
5. Remove the five Phillips screws attaching the PCBA to the sleeve assembly.
6. To replace the sleeve assembly, follow steps 1 through 5 in reverse order.

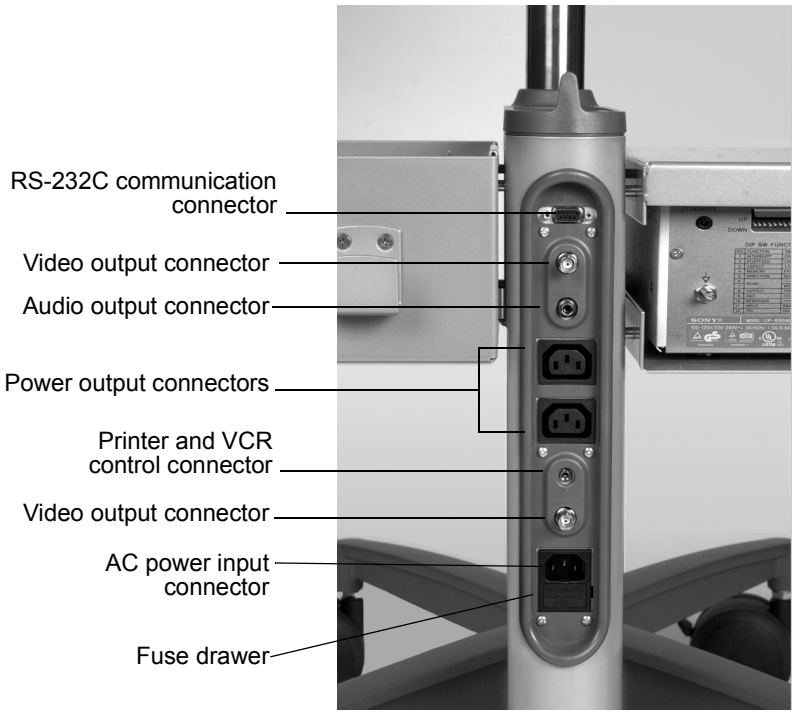
3.3.3 Replacing the Foot Pedal

1. Using the 1/8 inch allen wrench remove the shoulder bolt holding the foot pedal in place.
2. Remove the foot pedal.
3. Reinstall the foot pedal and insert the shoulder bolt.
4. Tighten the shoulder bolt so it is secure and the foot pedal moves freely.

3.3.4 Repairing or Replacing the Front Panel Connectors and the Power Supply

1. To access the connectors and the power supply use a #1 philips screwdriver to remove the six connector cover philips screws. Pull the connector cover off and set it aside.
2. Extend the gas spring to its maximum height by pressing the foot pedal.
3. Remove the blade cap by gently prying it up from the sides with a flat blade prying tool. There are no screws holding it in place. The blade cap can also be removed by removing the SiteStand station base assembly and using a long blunt tool pushing up from the bottom of the blade assembly. This method will prevent possible damage caused by prying the blade cap off.
4. Lift the blade cap to the top of the shaft and secure it in place out of the way.
5. Remove the two flat head 1/8 allen screws from the subplate at the end of the blade assembly nearest the connector panel. Remove the two 5/32 allen screws located closest to the sides of the blade assembly at the end of the blade assembly with the shaft.
6. Gently lift the subplate up and rotate it on the shaft to gain access to the connector panel.
7. Gently pull the connector assembly out the top of the blade assembly. Note the attaching tabs at the top and bottom. This is important for successful reassembly.
8. Any of the connectors and/or the power supply can now be repaired or replaced.
9. To reassemble the SiteStand station perform the preceding steps 1 through 8 in reverse order.

3.3.5 Replacing the SiteStand station Fuse



To replace the electrical fuse:

1. Disconnect the AC line cord from the hospital-grade electrical outlet.
2. Disconnect the AC line cord from the bottom of the SiteStand mobile docking station.
3. Use a small, slotted screwdriver to remove the fuse drawer (located directly below the input AC connector on the SiteStand mobile docking station).

   CAUTION:

   - You should identify the cause of the blown fuse prior to plugging the docking station back into AC power.
4. Carefully replace the blown fuse with a 250 volt, 6.3 amp, 5.0 x 20 mm Slo-Blo®-type fuse.
5. Install the fuse drawer.
6. Connect the AC power to the SiteStand mobile docking station.

3.4 SiteStand Mobile Docking Station Performance Tests

3.4.1 Setup

1. Install any SonoSite ultrasound system (without a battery) into the SiteStand mobile docking station.
2. Apply AC power, 120V 60Hz to SiteStand station “AC in” connector.

3.4.2 AC Power Verification

Use an AC Tester to verify both IEC output connectors are wired correctly.

3.4.3 Docking Video

1. Turn on the system.
2. Connect a Test Monitor to each of the video outputs on the docking stand.
3. Verify the same video pattern exists on the Test Monitor as is present on the System LCD Display.

3.4.4 RS-232

The RS-232 interface can only be field tested using the SiteLink Image Management software. If that software is installed, verify the information on the PC according to the *SiteLink Image Management User Guide* on the SiteLink CD-ROM.

3.4.5 Printer Interface

1. Connect the black and white video printer to the SiteStand station. Ensure that the control and AC power cables are attached, but not the video cable.
2. Verify that the printer produces an audible beep and that the user interface replies with its own tone.
3. Repeat steps 1 and 2 (above) at least one more time to verify that the status line is connected.

3.4.6 Audio Tone

1. Connect an amplified speaker to the audio output connection on the stand.
2. Set the system to Doppler function and perform a scan on a live model or a Doppler phantom.
3. Verify that the audio output to the amplified speaker is comparable to that produced by the system speakers.

APPENDIX A Schematic and Parts List

This section contains a list of field-replaceable parts.

A.1 Schematic and Wiring Diagram

This appendix provides a schematic diagram, a wiring diagram, and a cable diagram for the SiteStand station and the docking stand PCB.

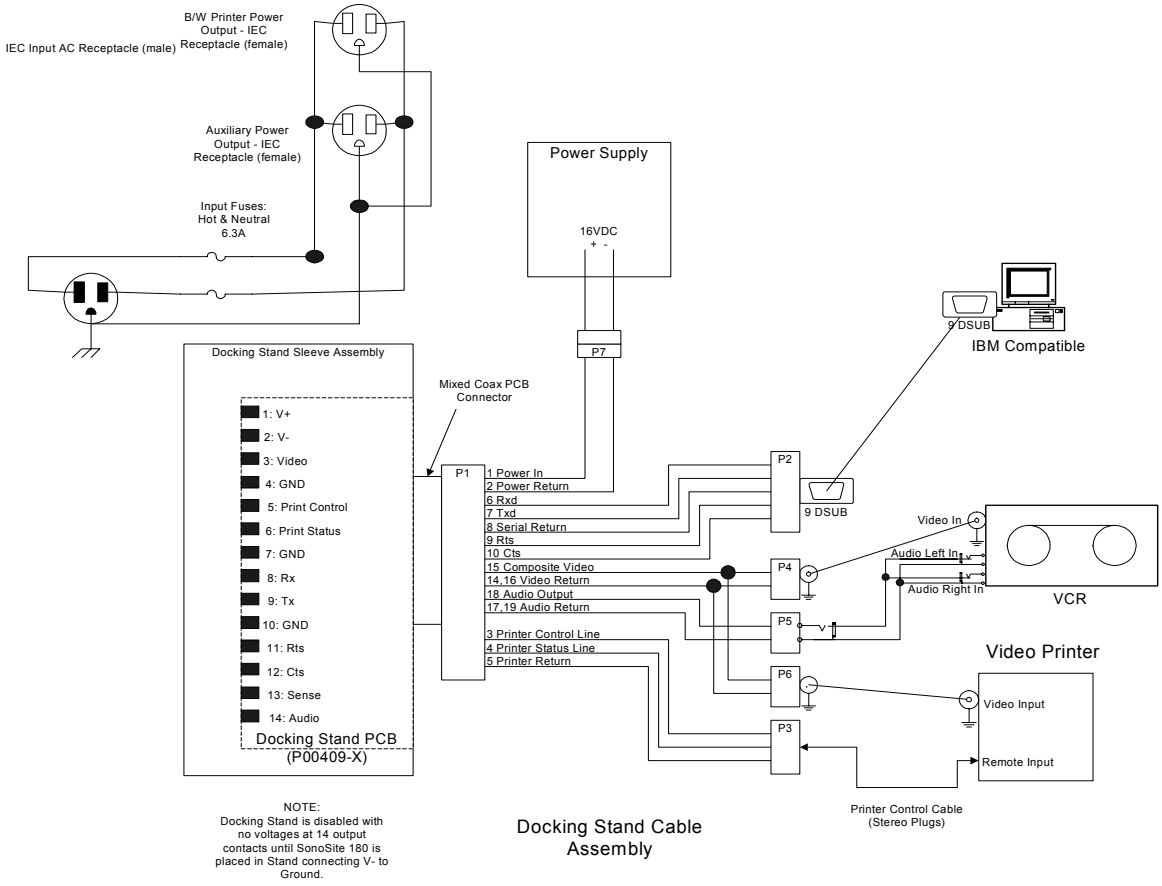
A.2 Replacement Parts List

This appendix also provides tables that contain all the replaceable parts for the SiteStand station. All quantities are one unless otherwise noted.

A.3 Ordering Replacement Parts

To order parts, contact SonoSite technical support at 1-877-657-8118 (U.S. and Canada) or +425-951-1330 (worldwide).

A.4 Cabling Diagram



Docking Station Fingers

Table A-1 shows the 14 interface docking fingers that engage when the UI unit is put in place in the docking station. These signals are then routed to sub circuits or pass through the Docking Station PCB to the mixed signal coax connector described in table A-1. From the connector the signals are routed through a cable to their appropriate interfaces in the base of the Docking Station.

Table A.1 Docking Fingers to UI Specifications

SIGNAL	PINS	FROM/ TO	LEVEL	DESCRIPTION
+16V	P501-1	P2-1	+16.0V	Output from Dock via AC/DC Adapter
+16V Return	P501-2	P2-2,	+.2V to-0.2V	Power Return - isolated from ground
Video	P501-3	P2-15	+1Vpp	Composite Video / Luminance
Video Return	P501-4	GND, P2-14, P2-16	0V	Signal Return - tied to ground
Control_Line	P501-5	P2-3	0V to 3.3V	Print Control/ API_Line
Stat_Frame	P501-6	P2-4	0V to 5V	Print Satus/ API_frame
PrnRet	P501-7	GNFD, P2-5	0V	Print Satus/ Return - tied to ground
RXD	P501-8	P2-6	0V to 3.3V -12V to 12V	Receive data from Dock to C1 Main through RS232 tranceiver
TXD	P501-9	P2-7	0V to 3.3V -5 to 5V	Transmit data from C1 Main to Dock through RS232 tranceiver
DGND	P501-10	P2-8	0V	Data Ground - tied to ground
RTS	P501-11	P2-9	0V to 3.3V -5V to 5V	Request to Send from C1 Main to Dock through RS232 tranceiver
CTS	P501-12	P2-10	0V to 3.3V -12V to 12V	Clear to Send from C1 Main to Dock through RS232 tranceiver
Dock_Sense	P501-13	GND	33uA	Dock_Sense -tied to ground to activate
Audio	P501-14	P2-18	0.7v p-p	Mono Audio Output signal (C1.99 only)

External Video Connector

The video supplied to the External Video Connectors on the Docking station is identical to the video generated from the UI Module. This video is routed out to the appropriate output jack, refer to Table 6-1 for signal conditions

Table A.2 External Video

SIGNAL	PIN(S)	I/O	LEVEL	DESCRIPTION
Ext_Video		O	1 Vpp	Composite Video Output
GND		-	0 V	Signal Return

External RS-232 Com Connector

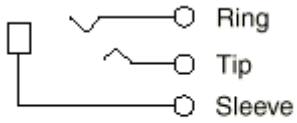
The connection to the 9 pin D-Sub connector for the RS-232 is shown in Table A.3.

Table A.3 RS-232 Com Connector

SIGNAL	PIN(S)	I/O	LEVEL	DESCRIPTION
RXD	2	I	±12V	Receive Data
TDX	3	O	±5V	Transmitted Data
DGND	5	-	0 V	Data Ground
RTS	7	O	±12V	Request To Send
CT	8	I	±5V	Clear To Send

Video Printer Control

This is a stereo jack that provides print control and status (Busy) for the video printer Refer to Table A.4 for details.



Circuit Diagram

Table A.4 Video Printer/ VCR Control

SIGNAL	PIN(S)	I/O	LEVEL	DESCRIPTION
Control_line	Tip(2)	O	+5V	Printer Control
Stat_Frame	Center Ring(3)	O	+5V	Printer Status
GND	Outer Ring(1)	-	0 V	Printer Return

AC Adapter Interface

The AC Adapter Interface consists of a module mounted on the bottom of the docking station. The module provides +16V DCV, which is routed to the Docking Station PCB. The specifications for the input connector and the circuit wiring will meet the Power Supply requirements in the FRS. Refer to Table A.5 for pin outs.

Table A.5 AC/DC Adapter

SIGNAL	PIN(S)	I/O	LEVEL	DESCRIPTION
+16v	striped	I	16 V	power supply input
gnd	plain	-	0 V	power return

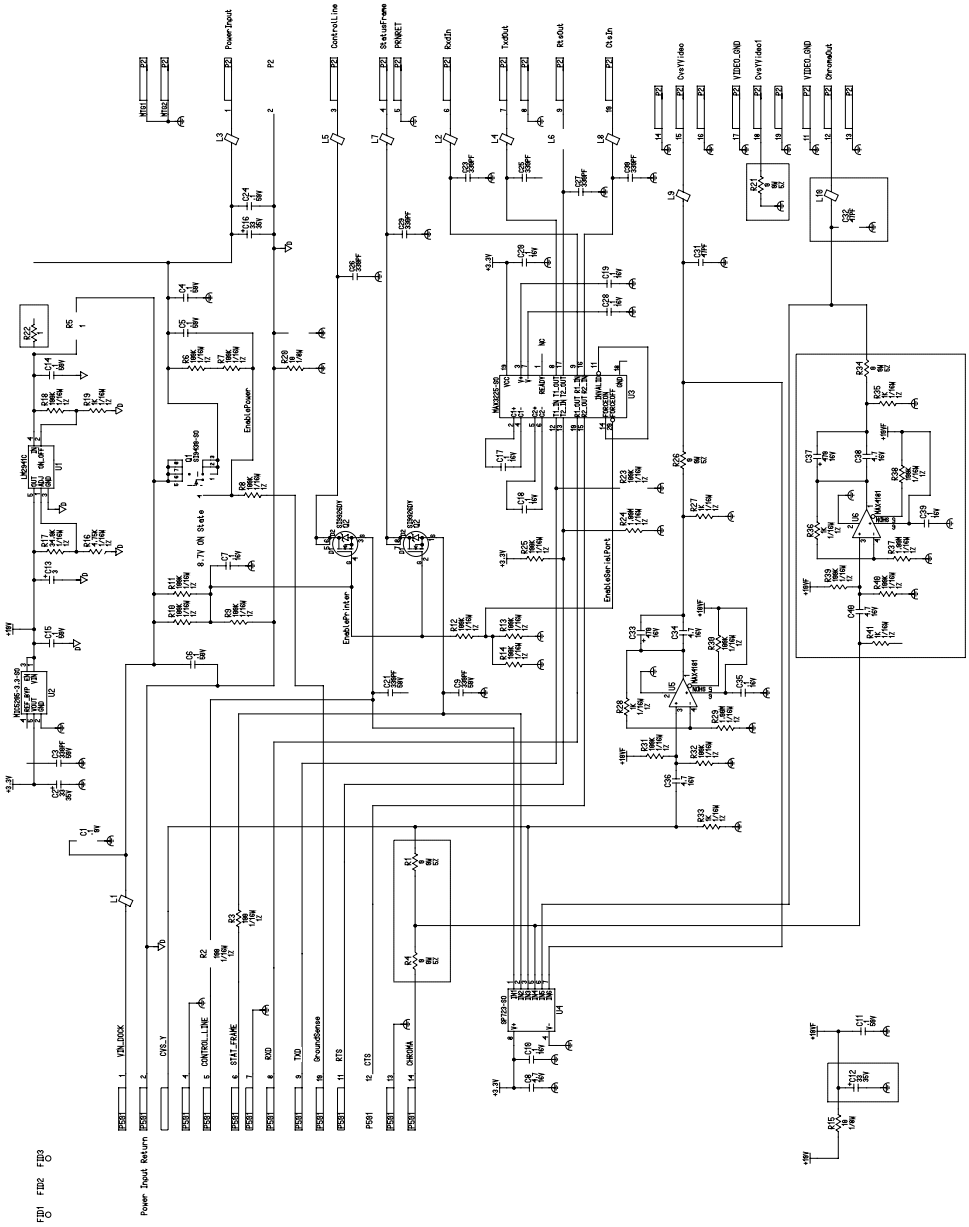
Audio Connector

Mono Audio is supported for C1.99 only.

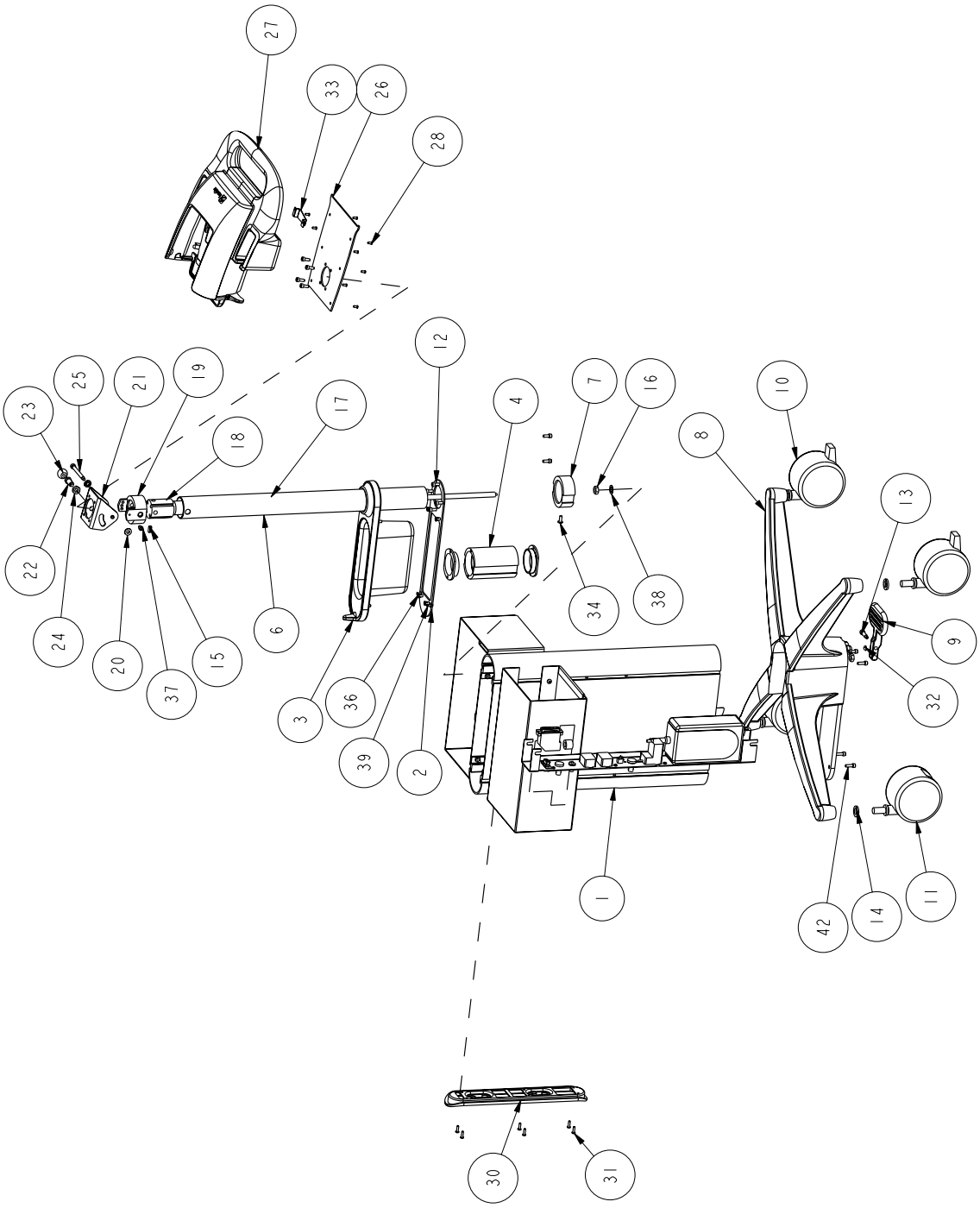
Table A.6 External Video

SIGNAL	PIN(S)	I/O	LEVEL	DESCRIPTION
Audio		O	0.7 Vpp	Mono Audio Output Signal (C1.99 only)
GND		-	0 V	Signal Return

A.5 Schematic Diagram, Docking Stand PCB



A.6 SiteStand Station Assembly



TThe parts list below is for the SiteStand Station Assembly shown on page 21.

Table A.7 SiteStand station Assembly Parts List

FIND NUMBER	ITEM NUMBER	PART DESCRIPTION
1	P01607	assembly, blade
2	P01619	subplate, body, top
3	P00589	blade cap
4	P02547	assembly, sitestand bearing and housing
6	P01622	tube, lift
7	P01623	bushing, clocking
8	P01624	base, machined
9	P00994	pedal, actuator
10	P00693	caster
11	P00694	caster, nonlocking
12	P01501	screw, shcs,10-32 x .50lg, stl alloy
13	P01602	screw, shoulder, .250 dia x .75 long alloy
14	P01532	washer, lock, 1/2,split,sstl
15	P01055	.25 dia x .500 roll pin, stainless
16	P01627	nut, m10 x 1 x 5 jam, zinc-chromate
17	P00678	gas spring
18	P01618	plug, float
19	P00991	collar, tilt
20	P01653	bushing, flanged, 1/4x.375x .12lg, nylon
21	P00989	bracket, tilt
22	P00974	plunger, indexing,3/8-24,m5,sstl
23	P01497	knob, ball, blk, m5, 20mm
24	P01658	nut, jam, 3/8-24, stl/zinc
25	P00978	bolt, shoulder,.25 x2.25lg, modified
26	P00596	plate, sleeve mounting
27	P00657	assembly, sleeve, stand with audio
28	P00787	screw, k35x8, type 1, recess panhead, tf
29	P02538	assembly, bracket and wiring with audio

Table A.7 SiteStand station Assembly Parts List, *Continued*

FIND NUMBER	ITEM NUMBER	PART DESCRIPTION
30	P00590	cover, connector, with audio
31	P01566	screw, phpls, 6-32x.50lg, zinc-chromate
32	P00976	bumper, elastomeric
33	P00908	sitestand support bracket
34	P01788	rivet, 3/16 x .50 open end, stl
36	P01500	nut, sleeve, non-locking
37	P01625	screw, shcs,10-32 x .25 lg, alloy
38	P01788	washer, lock, internal tooth, 3/8, zinc
39	P02022	screw, flat head, 10-32 x .50 , alloy
42	P02093	screw, shcs, 10-32 x .63 lg, stl alloy with IFI 124 patch

A.7 SiteStand Station Sleeve Assembly

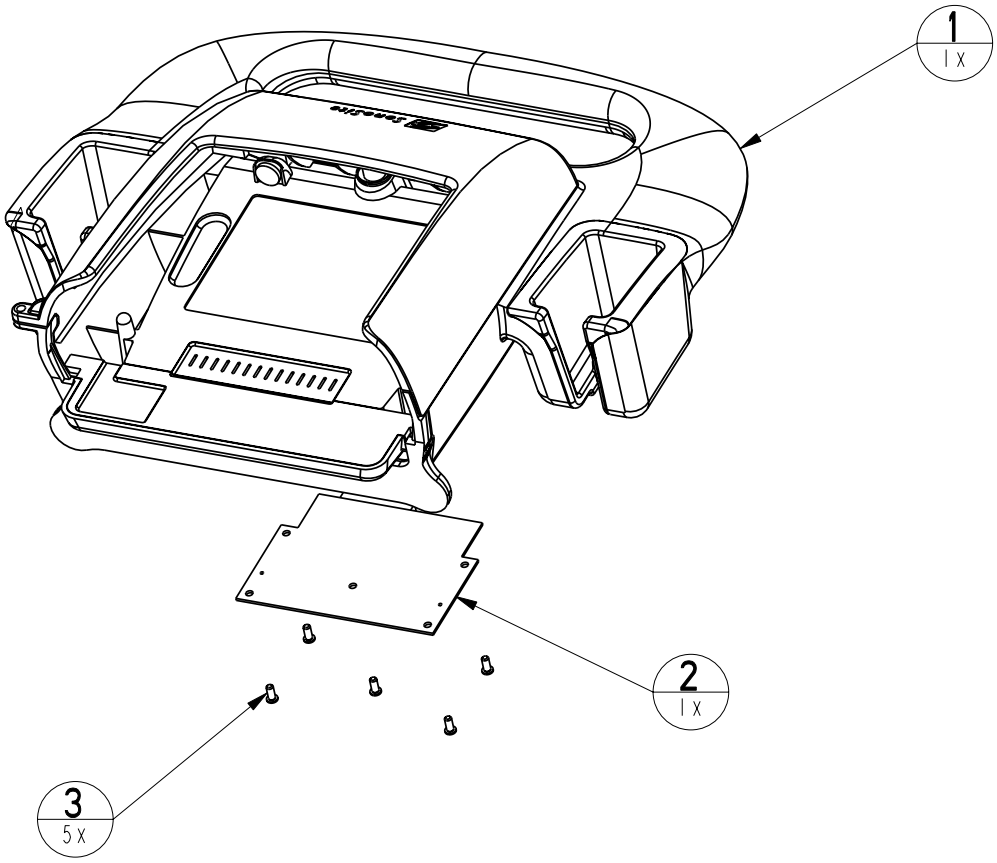


Table A.8 SiteStand station Sleeve Assembly Parts List

FIND NUMBER	ITEM NUMBER	PART DESCRIPTION
1	P01969	assembly sleeve, stand, less PCB
2	P00409	assembly, PCB, docking stand
3	P00787	screw, K35 x 8, type 1 recess panhead, TF

APPENDIX B Service Event Report

The Service Event Report provides information about product failures to the manufacturer and to authorized service facilities, which provide approved warranty services for SonoSite products. For all repairs completed, complete the form and return a copy of it to the following address:

SonoSite, Inc.
Technical Support
21919 30th Drive SE
Bothell, Washington 98021-3904

telephone: 1-877-657-8118 (U.S.& Canada)
+425-951-1330 (Worldwide)

facsimile: +425-951-6700

e-mail: service@sonosite.com

website: www.sonosite.com
Select **Products**, then Technical Support.

Service Event Report

SonoSite

Service Provider

Name:	Date:
Company:	
Address:	
Phone Number:	Fax Number:
E-mail address:	

Device Description

Name:	Serial Number:	
Part Number:	Lot Number:	Revision:
Software Version:	Other Identifiers:	

Event Description

Diagnosis

Service Performed

Performed By:	Date:
Actions:	

Parts Removed

Part Name	Part Number	Serial Number	Lot Number	Rev	Replaced By

Parts Installed

Part Name	Part Number	Serial Number	Lot Number	Rev	Replaced By

Tests Performed (attach test data)

Test:	Test:
Performed By:	Performed By:
Result: Pass ☐ Fail ☐	Result: Pass ☐ Fail ☐

Attach additional sheets as required